

JP2004130176

**Title:  
HONEYCOMB STRUCTURE**

**Abstract:**

**PROBLEM TO BE SOLVED:** To provide a honeycomb structure in which honeycomb segments are bonded firmly to each other by a bonding material to be integrated.

**SOLUTION:** In the honeycomb structure, the honeycomb segments having cell structures having cells to be a channel for fluid divided by partitions and outer walls installed on the peripheries of the cell structures are integrated by forming joint layers from the outer walls by the bonding material. In the bonding material, the content of inorganic particles the particle size ( $[\mu]m$ ) of which is at least 1.1 times as large as the average surface roughness  $R_a$  ( $[\mu]m$ ) of the outer walls does not exceed 30 mass% of the mass of the whole bonding material.

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